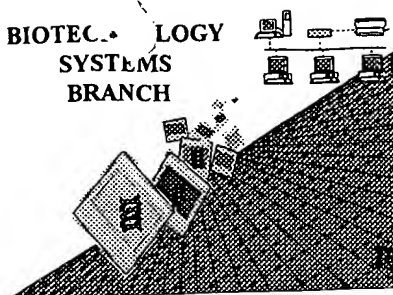


Kwise

RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



#6
1
RECEIVED

FEB 05 2001

TECH CENTER

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/462,629

Source: 1638

Date Processed by STIC: 1/24/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

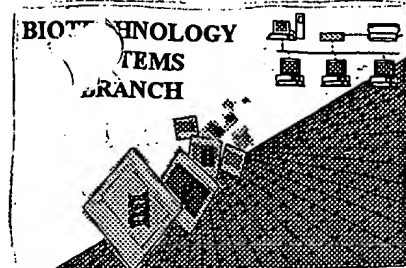
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

1600



1638
#16

CRF Problem Report

The Scientific and Technical Information Center (STIC) experienced a problem when processing the following computer readable form (CRF):

Application Serial Number: 09/462,629A
Filing Date: 1/11/2002
Date Processed by STIC: 3/4/2002

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MAR 19 2002

TECH CENTER 1600/2900

STIC Contact: Mark Spencer, 703-308-4212

Nature of Problem:

The CRF (was):

- ☒ (circle one) Damaged or Unreadable (for Unreadable, see attached)
☐ Blank (no files on CRF) (see attached)
☐ Empty file (filename present, but no bytes in file) (see attached)
☐ Virus-infected. Virus name: _____ The STIC will not process the CRF.
☐ Not saved in ASCII text
☐ Sequence Listing was embedded in the file. According to Sequence Rules, submitted file should **only** be the Sequence Listing.
☐ Did not contain a Sequence Listing. (see attached sample)
☐ Other: _____

**PLEASE USE THE CHECKER VERSION 3.1 PROGRAM TO REDUCE ERRORS.
SEE BELOW FOR ADDRESS:**

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Sequence Count Sheet

Application No.

09/462,629

Examiner

David H Kruse

Applicant(s)

SEULBERGER ET AL.

Art Unit

1638

DATE OF COUNT _____

Mark only one space below

☐

(CRFN) (CRF is unreadable; use CRF Diskette Problem Report)

☐

(CRFD) (CRF does not comply; use Notice to Comply)

☐

(CRFR) (CRF required but none submitted; use Notice to Comply)

☒

(bona fide) (second or subsequent letter to applicant reporting bona fide attempt to comply; use Notice to Comply and send copy of RSL)

☐

(non bona fide) (second or subsequent letter to applicant reporting non-bona fide attempt to comply; use Notice to Comply and send copy of RSL)

RECEIVED

FEB 05 2001

1638

TECH CENTER 10002500

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/462,629

DATE: 01/24/2001

TIME: 13:38:32

Input Set : A:\462629.txt

Output Set: N:\CRF3\01242001\I462629.raw

Does Not Comply
Corrected Diskette Needed

P.3

3 <110> APPLICANT: Seulberger, Harald

4 Lerchl, Jenms

5 Schmidt, Ralf-Michael

6 Krupinska, Karin

7 Falk, Jon

9 <120> TITLE OF INVENTION: DNA sequence encoding a hydroxyphenylpyruvate
dioxxygenase, and its

10 overproduction in plants

①K-> 0 <130> FILE REFERENCE:

12 <140> CURRENT APPLICATION NUMBER: US 09/462,629

13 <141> CURRENT FILING DATE: 2000-01-11

15 <150> PRIOR APPLICATION NUMBER: PCT/EP98/03832

16 <151> PRIOR FILING DATE: 1998-06-23

18 <160> NUMBER OF SEQ ID NOS: 2

20 <170> SOFTWARE: WordPerfect version 6.1

22 <210> SEQ ID NO: 1

23 <211> LENGTH: 1565

24 <212> TYPE: DNA

25 <213> ORGANISM: hppd from barley

27 <220> FEATURE:

28 <221> NAME/KEY: CDS

29 <222> LOCATION: 9 ... 1313

31 <400> SEQUENCE: 1

33 cgcacacc atg ccg ccc acc ccc acc acc ccc gcg gct acc ggc gcc gcc50

34 Met Pro Pro Thr Pro Thr Thr Pro Ala Ala Thr Gly Ala Ala

35 1 5 10

37 gcc gcg gtg acg ccg gag cac gcg cga ccg cac cga atg gtc cgc ttc98

38 Ala Ala Val Thr Pro Glu His Ala Arg Pro His Arg Met Val Arg Phe

39 15 20 25 30

41 aac ccg cgc agc gac cgc ttc cac acg ctc tcc ttc cac cac gtc gag146

42 Asn Pro Arg Ser Asp Arg Phe His Thr Leu Ser Phe His His Val Glu

43 35 40 45

45 ttc tgg tgc gcg gac gcc gcc tcc gcc gcc ggc cgc ttc gcg ttc gcg194

46 Phe Trp Cys Ala Asp Ala Ala Ser Ala Ala Gly Arg Phe Ala Phe Ala

47 50 55 60

49 ctc ggc gcg ccg ctc gcc gcc agg tcc gac ctc tcc acg ggg aac tcc242

50 Leu Gly Ala Pro Leu Ala Ala Arg Ser Asp Leu Ser Thr Gly Asn Ser

51 65 70 75

53 gcg cac gcc tcc cag ctg ctc cgc tgg ggc tcc ctc gcc ttc ctc ttc290

54 Ala His Ala Ser Gln Leu Leu Arg Ser Gly Ser Leu Ala Phe Leu Phe

55 80 85 90

57 acc gcg ccc tac gcc aac ggc tgc gac gcc gcc acc gcc tcc ctg ccc338

58 Thr Ala Pro Tyr Ala Asn Gly Cys Asp Ala Ala Thr Ala Ser Leu Pro

59 95 100 105 110

61 tcc ttc tcc gcc gac gcc gcg cgc cgg ttc tcc gcc gac cac ggg atc386

62 Ser Phe Ser Ala Asp Ala Ala Arg Arg Phe Ser Ala Asp His Gly Ile

63 115 120 125

65 gcg gtg cgc tcc gta gcg ctg cgc gtc gca gac gcc gcc gag gcc ttc434

RAW SEQUENCE LISTING

DATE: 01/24/2001

PATENT APPLICATION: US/09/462,629

TIME: 13:38:32

Input Set : A:\462629.txt

Output Set: N:\CRF3\01242001\I462629.raw

```

66 Ala Val Arg Ser Val Ala Leu Arg Val Ala Asp Ala Ala Glu Ala Phe
67          130          135          140
69 cgc gcc agt cgt cga cgg ggc gcg cgc ccg gcc ttc gcc ccc gtg gac482
70 Arg Ala Ser Arg Arg Arg Gly Ala Arg Pro Ala Phe Ala Pro Val Asp
71          145          150          155
73 ctc ggc cgc ggc ttc gcg ttc gcg gag gtc gag ctc tac ggc gac gtc530
74 Leu Gly Arg Gly Phe Ala Phe Ala Glu Val Glu Leu Tyr Gly Asp Val
75          160          165          170
77 gtg ctc cgc ttc gtc agc cac ccg gac ggc acg gac gtg ccc ttc ttg578
78 Val Leu Arg Phe Val Ser His Pro Asp Gly Thr Asp Val Pro Phe Leu
79 175          180          185          190
81 ccg ggg ttc gag ggc gta acc aac ccg gac gcc gtg gac tac ggc ctg626
82 Pro Gly Phe Glu Gly Val Thr Asn Pro Asp Ala Val Asp Tyr Gly Leu
83          195          200          205
85 acg cgg ttc gac cac gtc gtc ggc aac gtc ccg gag ctt gcc ccc gcc674
86 Thr Arg Phe Asp His Val Val Gly Asn Val Pro Glu Leu Ala Pro Ala
87          210          215          220
89 gca gcc tac atc gcc ggg ttc acg ggg ttc cac gag ttc gcc gag ttc722
90 Ala Ala Tyr Ile Ala Gly Phe Thr Gly Phe His Glu Phe Ala Glu Phe
91          225          230          235
93 acg gcg gag gac gtg ggc acg acc gag agc ggg ctc aac tcg gtg gtg770
94 Thr Ala Glu Asp Val Gly Thr Thr Glu Ser Gly Leu Asn Ser Val Val
95          240          245          250
97 ctc gcc aac aac tcg gag ggc gtg ctg ctg ccg ctc aac gag ccg gtg818
98 Leu Ala Asn Asn Ser Glu Gly Val Leu Leu Pro Leu Asn Glu Pro Val
99 255          260          265          270
101 cac ggc acc aag cgc cgg agc cag ata cag acg ttc ctg gaa cac cac866
102 His Gly Thr Lys Arg Arg Ser Gln Ile Gln Thr Phe Leu Glu His His
103          275          280          285
105 ggc ggc ccg ggc gtg cag cac atc gcg gtg gcc agc agt gac gtg ctc914
106 Gly Gly Pro Gly Val Gln His Ile Ala Val Ala Ser Ser Asp Val Leu
107          290          295          300
109 agg acg ctc agg aag atg cgt gcg cgc tcc gcc atg ggc ggc ttc gac962
110 Arg Thr Leu Arg Lys Met Arg Ala Arg Ser Ala Met Gly Gly Phe Asp
111          305          310          315
113 ttc ctg cca ccc ccg ctg ccg aag tac tac gaa ggc gtg cga cgc ctt1010
114 Phe Leu Pro Pro Pro Leu Pro Lys Tyr Tyr Glu Gly Val Arg Arg Leu
115          320          325          330
117 gcc ggg gat gtc ctc tcg gag gcg cag atc aag gaa tgc cag gag ctg1058
118 Ala Gly Asp Val Leu Ser Glu Ala Gln Ile Lys Glu Cys Gln Glu Leu
119 335          340          345          350
121 ggt gtg ctc gtc gat agg gac gac caa ggg gtg ttg ctc caa atc ttcl106
122 Gly Val Leu Val Asp Arg Asp Asp Gln Gly Val Leu Leu Gln Ile Phe
123          355          360          365
125 acc aag cca gta ggg gac agg ccg acc ttg ttc ctg gag atg atc cag1154
126 Thr Lys Pro Val Gly Asp Arg Pro Thr Leu Phe Leu Glu Met Ile Gln
127          370          375          380
129 agg atc ggg tgc atg gag aag gac gag aga ggg gaa gag tac cag aag1202
130 Arg Ile Gly Cys Met Glu Lys Asp Glu Arg Gly Glu Glu Tyr Gln Lys

```

RAW SEQUENCE LISTING

DATE: 01/24/2001

PATENT APPLICATION: US/09/462,629

TIME: 13:38:32

Input Set : A:\462629.txt

Output Set: N:\CRF3\01242001\I462629.raw

```

131          385          390          395
133 ggt ggc tgc ggc ggg ttc ggc aaa ggc aac ttc tcc gag ctg ttc aag1250
134 Gly Gly Cys Gly Gly Phe Gly Lys Gly Asn Phe Ser Glu Leu Phe Lys
135          400          405          410
137 tcc att gaa gat tac gag aag tcc ctt gaa gcc aag caa tct gct gca1298
138 Ser Ile Glu Asp Tyr Glu Lys Ser Leu Glu Ala Lys Gln Ser Ala Ala
139 415          420          425          430
141 gtt cag gga tca taggatagaa gctggctcctt gtatcatggt ctcatggagc 1350
142 Val Gln Gly Ser
144 aaaagaaaac aatgttggtt gtaatatgcg tcgcacaatt atatcaatgt tataattggt1410
146 gaagctgaag acagatgtat cctatgtatg atgggtgtaa tggatggtag aggggtcac1470
148 acatgaagaa aatgtagcgt tgacattggt gtacaatcct gcttgaagt aaaataaaga1530
150 acagattttg agttctgcaa aaaaaaaaaa aaaaa          1565
153 <210> SEQ ID NO: 2
154 <211> LENGTH: 434
155 <212> TYPE: PRT
W--> 157 <213> ORGANISM:
157 <400> SEQUENCE: 2
159 Met Pro Pro Thr Pro Thr Thr Pro Ala Ala Thr Gly Ala Ala Ala Ala
160 1          5          10          15
162 Val Thr Pro Glu His Ala Arg Pro His Arg Met Val Arg Phe Asn Pro
163          20          25          30
165 Arg Ser Asp Arg Phe His Thr Leu Ser Phe His His Val Glu Phe Trp
166          35          40          45
168 Cys Ala Asp Ala Ala Ser Ala Ala Gly Arg Phe Ala Phe Ala Leu Gly
169          50          55          60
171 Ala Pro Leu Ala Ala Arg Ser Asp Leu Ser Thr Gly Asn Ser Ala His
172 65          70          75          80
174 Ala Ser Gln Leu Leu Arg Ser Gly Ser Leu Ala Phe Leu Phe Thr Ala
175          85          90          95
177 Pro Tyr Ala Asn Gly Cys Asp Ala Ala Thr Ala Ser Leu Pro Ser Phe
178          100          105          110
180 Ser Ala Asp Ala Ala Arg Arg Phe Ser Ala Asp His Gly Ile Ala Val
181          115          120          125
183 Arg Ser Val Ala Leu Arg Val Ala Asp Ala Ala Glu Ala Phe Arg Ala
184          130          135          140
186 Ser Arg Arg Arg Gly Ala Arg Pro Ala Phe Ala Pro Val Asp Leu Gly
187 145          150          155          160
189 Arg Gly Phe Ala Phe Ala Glu Val Glu Leu Tyr Gly Asp Val Val Leu
190          165          170          175
192 Arg Phe Val Ser His Pro Asp Gly Thr Asp Val Pro Phe Leu Pro Gly
193          180          185          190
195 Phe Glu Gly Val Thr Asn Pro Asp Ala Val Asp Tyr Gly Leu Thr Arg
196          195          200          205
198 Phe Asp His Val Val Gly Asn Val Pro Glu Leu Ala Pro Ala Ala Ala
199          210          215          220
201 Tyr Ile Ala Gly Phe Thr Gly Phe His Glu Phe Ala Glu Phe Thr Ala
202 225          230          235          240
204 Glu Asp Val Gly Thr Thr Glu Ser Gly Leu Asn Ser Val Val Leu Ala

```

This numeric identifier AND its response are mandatory. See circled portion of Item 12 on Error Summary sheet.

RAW SEQUENCE LISTING

DATE: 01/24/2001

PATENT APPLICATION: US/09/462,629

TIME: 13:38:32

Input Set : A:\462629.txt

Output Set: N:\CRF3\01242001\I462629.raw

205					245					250					255	
207	Asn	Asn	Ser	Glu	Gly	Val	Leu	Leu	Pro	Leu	Asn	Glu	Pro	Val	His	Gly
208				260					265					270		
210	Thr	Lys	Arg	Arg	Ser	Gln	Ile	Gln	Thr	Phe	Leu	Glu	His	His	Gly	Gly
211			275					280					285			
213	Pro	Gly	Val	Gln	His	Ile	Ala	Val	Ala	Ser	Ser	Asp	Val	Leu	Arg	Thr
214		290					295					300				
216	Leu	Arg	Lys	Met	Arg	Ala	Arg	Ser	Ala	Met	Gly	Gly	Phe	Asp	Phe	Leu
217	305					310					315				320	
219	Pro	Pro	Pro	Leu	Pro	Lys	Tyr	Tyr	Glu	Gly	Val	Arg	Arg	Leu	Ala	Gly
220				325					330					335		
222	Asp	Val	Leu	Ser	Glu	Ala	Gln	Ile	Lys	Glu	Cys	Gln	Glu	Leu	Gly	Val
223			340					345					350			
225	Leu	Val	Asp	Arg	Asp	Asp	Gln	Gly	Val	Leu	Leu	Gln	Ile	Phe	Thr	Lys
226		355					360					365				
228	Pro	Val	Gly	Asp	Arg	Pro	Thr	Leu	Phe	Leu	Glu	Met	Ile	Gln	Arg	Ile
229		370					375					380				
231	Gly	Cys	Met	Glu	Lys	Asp	Glu	Arg	Gly	Glu	Glu	Tyr	Gln	Lys	Gly	Gly
232	385					390				395					400	
234	Cys	Gly	Gly	Phe	Gly	Lys	Gly	Asn	Phe	Ser	Glu	Leu	Phe	Lys	Ser	Ile
235			405					410					415			
237	Glu	Asp	Tyr	Glu	Lys	Ser	Leu	Glu	Ala	Lys	Gln	Ser	Ala	Ala	Val	Gln
238			420					425					430			
240	Gly	Ser														

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/462,629

DATE: 01/24/2001

TIME: 13:38:33

Input Set : A:\462629.txt

Output Set: N:\CRF3\01242001\I462629.raw

L:0 M:201 W: Mandatory field data missing, FILE REFERENCE

L:157 M:282 W: Numeric Field Identifier Missing, <213> is required.